



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Office of Research and Development National Center for Environmental Assessment

Postdoctoral Positions

The National Center for Environmental Assessment-Cincinnati (NCEA-CIN) of the U.S. EPA Office of Research and Development (ORD) is seeking candidates for Federal, three-year postdoctoral research positions. The postdoctoral positions are described below.

Physiologically Based Pharmacokinetic Modeling for Risk Assessment

NCEA-CIN seeks a physiological modeler to:

- develop models to address species and route extrapolation
- assess human variance in biochemical, physiological and/or anatomic factors affecting risk
- identify chemicals/PBPK outputs which reduce uncertainties in risk assessments
- develop and validate models for human variances that may modulate risk

Microbiology, Health, Pathogenic Microorganisms

NCEA-CIN is seeking a microbiologist with a Ph.D. or equivalent degree, experience in microbial risk modeling and assessment, and understanding of human susceptibility to infection for waterborne or airborne pathogens to:

- develop and improve microbial risk assessment methods
- develop approaches to estimate risk in absence of occurrence and population data
- develop specific microbial risk assessments to support regulatory decisions

A Spatial Approach for Assessing and Managing Nonpoint Sources of Nutrients and Pathogens in Surface Waters

NCEA is presently obtaining high spatial resolution, hyperspectral imagery of the Little Miami River Watershed in Southwest Ohio. These data will be used to explore effects of land cover/land use on nutrient and pathogen export to streams and effects on human and ecological receptors. The position includes:

- collaborating with other scientists in classifying this imagery
- developing predictive models for analyzing hypothetical landscapes

Quantitative Environmental Science

NCEA-CIN is seeking a statistician with a Ph.D. in statistics, biostatistics, mathematics or equivalent field of study to work in the area of quantitative environmental risk assessment. Duties may include:

- hypothesis testing
- dose-response modeling
- development of risk assessment methods
- quantitative characterization of variability and uncertainty
- Monte Carlo simulations and estimation of probability distributions for exposure

Toxicologist

NCEA-CIN is seeking a toxicologist to produce state-of-the-science human health risk assessments of national significance and provide guidance and support to environmental risk assessors.

- assess the potential effects of environmental contaminants
- interpret animal toxicity and carcinogenicity data
- evaluate single chemical and chemical mixtures exposures
- contribute to the development of new methodologies to quantify risk

Applicants with degrees in microbiology, toxicology, pharmacology, biomathematical modeling, environmental science, environmental engineering, biostatistics, or related fields are encouraged to apply. These positions will begin immediately at a starting salary range of \$48,172 - \$75,057 commensurate with qualifications. Those selected candidates will be eligible for a **full benefits package**. Preferred candidates will have earned a Ph.D. in one of the above disciplines in the past five years. Must be a United States citizen. To apply, send a curriculum vitae, transcripts, letter of recommendation from your senior research advisor or other comparable official, additional reference(s), and a letter indicating your research focus to: Dr. Glenn Suter, National Center for Environmental Assessment (MS-117), ATTN: Post-Doctoral Positions, U.S. Environmental Protection Agency, 26 W. Martin Luther King Drive, Cincinnati, Ohio 45268. Applications will be received and evaluated by NCEA on an ongoing basis.

The U.S.EPA is an Equal Opportunity Employer

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Applying science to improve risk assessment and environmental decision making